

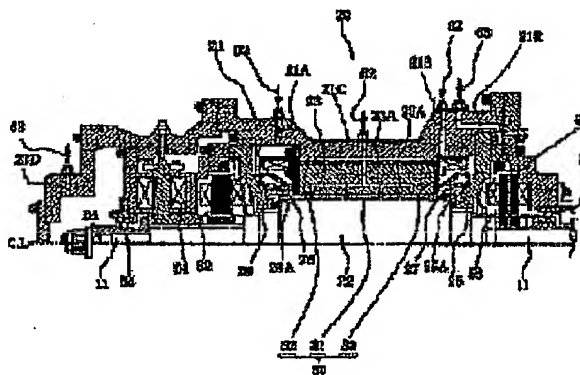
**ULTRAHIGH SPEED ROTARY ELECTRIC MACHINE**

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**Abstract of JP11055899**

**PROBLEM TO BE SOLVED:** To improve a rotary speed and at the same time to suppress temperature increase by supplying a pressurized gas with specific pressure to the gap between the outer periphery of a rotor and the inner periphery of a stator. **SOLUTION:** A gap 31 between the outer-periphery surface of a rotor 22 and the inner-periphery surface of a stator 23 is connected to the gap (front and rear gaps 32 and 33) between the front and rear side surfaces of the stator 23 and each of partition wall rings 25 and 26 for forming a one-piece pressurized gap 30, and the pressurized gap 30 is sealed with labyrinth seals 26 and 27 against the front and the rear in the axial direction. Also, gas supply holes 21A, 21B, and 21C and discharge holes 21D and 21E are opened and formed in a casing 21. The gas supply holes 21A and 21B are provided in a position corresponding to the front and rear gaps 32 and 33 of the front and rear sides of the stator 23, the gas supply hole 21C is provided in a position corresponding to the stator 23, and a pressurized gas supply path 62 branching from a hydrogen gas supply path for supplying the hydrogen gas to a turbine is connected to the supply holes 21A, 21B, and 21C.



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